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Journals Analysis in the Field of Literature on Vascular Diseases in Children

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ABSTRACT

This paper presents the analysis of core journals and subject-wise coverage of journals in the field of Vascular Diseases in Children for the period from 2012 to 2016 in the MEDLINE data which are covered in the Pubmed. The purpose of this study is to ascertain the core journals and its subject-wise coverage of journals in the field of Vascular Diseases in Children. It is found that the maximum number of records (6223) was published during the year 2015. The majority of the records were journal articles. 43 journals grouped in zone-1 published 4122 journal articles. In the second zone comprises of 263 journals published 4253 journal articles and 1749 journals published 3964 journal articles grouped in third zone. In zone-1, 15 journals are associated with Pediatrics, 8 with Cardiology, 4 with Cardiovascular Surgery, 3 with Neurology, 2 each with Neurosurgery, Surgery and Thoracic Surgery and 1 each with Dermatology, Genetics, Medicine, Nephrology, Oncology, Physiology and Radiology. In zone-2; 68 are General Medicine out of 263 journals covered, 44 in Cardiology, 25 in Pediatrics, 18 in Radiology, 15 in Surgery, 11 in Neurology, 9 in Neurosurgery, 8 in Genetics, 7 each in Anesthesia, Hematology and Rheumatology, 4 each in Endocrinology, Ophthalmology and Physiology, 3 in Cardiovascular Surgery, 2 each in Dermatology, Nephrology, Nutrition, Orthopedics, Pathology, Perinatology, Public Health, Urology and Vascular Surgery and 1 each in Biochemistry, Cancer, Dentistry, Epidemiology, Forensic Medicine, Gastroenterology, Oncology, Otorhinolaryngology, Plastic Surgery, Respiratory Medicine and Thoracic Surgery. 306 journals have been identified as core journals in the field of Vascular Diseases in Children.

Keywords: Vascular Diseases in Children, Bradford's Law and Core journals

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1. INTRODUCTION

The study deals with the bibliometric analysis of core journals and subject-wise coverage of journals in the field of 'Vascular Diseases in Children' using MEDLINE data for the period from the year 2012 to 2016 which covered in the Pubmed. It is necessary to concentrate on core journals and its subject-wise coverage of journals in the field of literature on Vascular Diseases in Children research, since lot of articles have been published in recent years. This paper is expected to bring the core journals and its subject-wise coverage of journals in the discipline of Vascular Diseases in Children.

2. VASCULAR DISEASES

Vascular disease is a class of diseases of the blood vessels – the arteries and veins of the circulatory system of the body. It is a subgroup of cardiovascular disease. Disorders in this vast network of blood vessels can cause a range of health problems which can be severe or prove fatal. It can be difficult to make a vascular disease diagnosis since there are a variety of symptoms that a person can have, also family history and a physical examination are important. The physical exam may be different depending on the type of vascular disease. [1]

3. LITERATURE REVIEW

There are numerous studies on mapping have been analyzed allied health journal citations to determine lists of core journals in their fields.[2-9] Ramakrishnan and Rajendran[10] on Hepatitis B. Ramesh Babu and Ramakrishnan[11] studied on Indian Contributions to the Field of Hepatitis. Krishnamoorthy, Ramakrishnan and Devi[12] studied on diabetes. Ramesh Babu and Ramakrishnan[13] studied on Indian Contributions to the field of HIV/AIDS and they identified core journals. Ramakrishnan and Thavamani studied on Core Journal Analysis of the Literature on Leptospirosis (2006-2013).[14]

Ramakrishnan, Ravi Sankar and Thavamani studied on Analysis of Core Journals in the Literature on Breast Cancer.[15]

The review of literature on core journals analysis revealed that so far no quantitative study on core journals and its subject-wise coverage in the discipline of Vascular Diseases in Children has been published. Hence the present study.

4. OBJECTIVES

The objectives of this paper are:

i. To study the growth of "Vascular Diseases in Children" literature; and

ii. To find out the core journals and its subject-wise coverage in the field of Vascular Diseases in Children and Bradford's Law of scattering used to identify the same.

5. METHODOLOGY

The records available during the year 2012 to 2016 in the field of Vascular Diseases in Children in the MEDLINE data which are covered in the Pubmed (www.pubmed.com) which is a free resource that is developed and maintained by the National Center for Biotechnology Information (NCBI), at the U.S. National Library of Medicine (NLM), located at the National Institutes of Health (NIH) was searched and bibliographic details were collected. The retrieved records were converted into FoxPro and loaded in SPSS for the purpose of analysis. The keyword 'Vascular Diseases in Children' has been used for extracting the number of records available in the above said database. This cited journal reference data was used to determine core journals and scatter within the field of Vascular Diseases in Children. Bradford's Law of Scattering[16] calls for ranking a large number of cited papers by journal title in order of decreasing productivity of those titles. Three zones are their marked off. Each zone comprises one-third of the total cited references. Journals in zone-1 are cited most frequently, those Journals in zone-2 are cited less often, and those in zone 3 are cited least.

Cited journals in zone-1 and zone-2 were identified as core journals in the field of literature on Vascular Diseases in Children. Finally, the journals were identified in the two zones classified according to zone-wise and the results have been used to identify the core journals and its subject-wise coverage of journals in the field of Vascular Diseases in Children.

6. LIMITATIONS

This study is restricted to a period from 2012 to 2016 using MEDLINE data which is covered in Pubmed only.

7. ANALYSIS AND DISCUSSION

7.1 QUANTUM OF VASCULAR DISEASES IN CHILDREN RESEARCH PRODUCTIVITY

The research productivity on 'Vascular Diseases in Children' covered in the database is presented in Table 1. It is noticed that total of 25894 records on 'Vascular Diseases in Children' are covered in the MEDLINE data which covered in Pubmed for a period of five years from 2012 to 2016. It is found that the maximum number of records (6223) was published during 2015, followed by 6007 in 2014 and 5825 in 2013. On the whole, it is noticed that from 2012 onwards there is a gradual increase of Vascular Diseases in Children research productivity every year except 2016 it is less compare to the previous years. (Fig.1)

Table 1

Quantum of Literature published in Vascular Diseases in Children

S.No.	Year	Frequency	%
1.	2012	4363	16.85
2.	2013	5825	22.50
3.	2014	6007	23.20
4.	2015	6223	24.03
5.	2016	3476	13.42
Total		**25894**	**100.00**

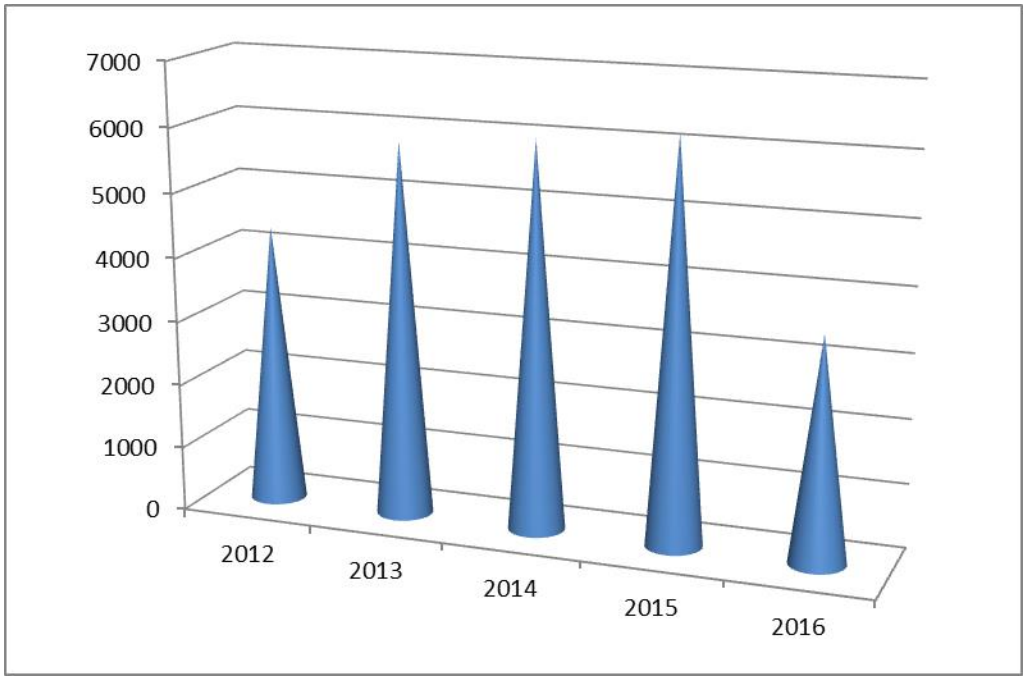

Figure-1: Year-wise Productivity of Vascular Diseases in Children Research

7.2 PUBLICATION TYPES DISTRIBUTION OF VASCULAR DISEASES IN CHILDREN RESEARCH

Table-2 reveals the distribution of the 'Vascular Diseases in Children' research output according to various publication types of MEDLINE. It was found that 47.65% are journal articles, 26.64% are Research Support, Non-U.S. Gov't, 12.56% are Review, 2.97% are Research Support, N.I.H., Extramural, 2.61 are Letter, 1.30% are Multicenter Study, 1.02% are Observational Study and 1.00% are Editorial. The literature published as other bibliographic forms such as Randomized Controlled Trial, Research Support, U.S. Gov't, Non-P.H.S., Research Support, U.S. Gov't, P.H.S.,Validation Studies, Video-Audio Media, Practice Guideline, Research Support, N.I.H., Intramural, Comment, News, Meta-Analysis, Introductory Journal Article, Twin Study, Case Reports, Patient Education Handout, Portraits, Book, Congresses, English Abstract, Personal Narratives, Technical Report, Legal Cases, Book Chapter, Historical Article, Interview, Retracted Publication, Webcasts, Bibliography, Lectures, Overall, Newspaper Article and Published Erratum is 4.23%. (Fig.2)

Table 2
Publication Types of Vascular Diseases in Children Research

S.N	Pub. Type	No. of records	%
1.	Journal Article	12339	47.65
2.	Research Support, Non-U.S. Gov't	6899	26.64
3.	Review	3253	12.56
4.	Research Support, N.I.H., Extramural	768	2.97
5.	Letter	677	2.61
6.	Multicenter Study	336	1.30
7.	Observational Study	263	1.02
8.	Editorial	258	1.00
9.	Randomized Controlled Trial	163	0.63
10.	Research Support, U.S. Gov't, Non-P.H.S.	146	0.56
11.	Research Support, U.S. Gov't, P.H.S.	135	0.52
12.	Validation Studies	114	0.44
13.	Video-Audio Media	101	0.39
14.	Practice Guideline	76	0.29
15.	Research Support, N.I.H., Intramural	68	0.26
16.	Comment	49	0.19
17.	News	48	0.19
18.	Meta-Analysis	45	0.17
19.	Introductory Journal Article	43	0.17
20.	Twin Study	21	0.08
21.	Case Reports	11	0.04
22.	Patient Education Handout	10	0.04
23.	Portraits	9	0.03
24.	Book	8	0.03
25.	Congresses	7	0.03
26.	English Abstract	7	0.03
27.	Personal Narratives	6	0.02
28.	Technical Report	6	0.02
29.	Legal Cases	5	0.02
30.	Book Chapter	3	0.01
31.	Historical Article	3	0.01
32.	Interview	3	0.01
33.	Retracted Publication	3	0.01
34.	Webcasts	3	0.01
35.	Bibliography	2	0.01
36.	Lectures	2	0.01
37.	Overall	2	0.01
38.	Newspaper Article	1	0.00
39.	Published Erratum	1	0.00
Total		**25894**	**100.00**

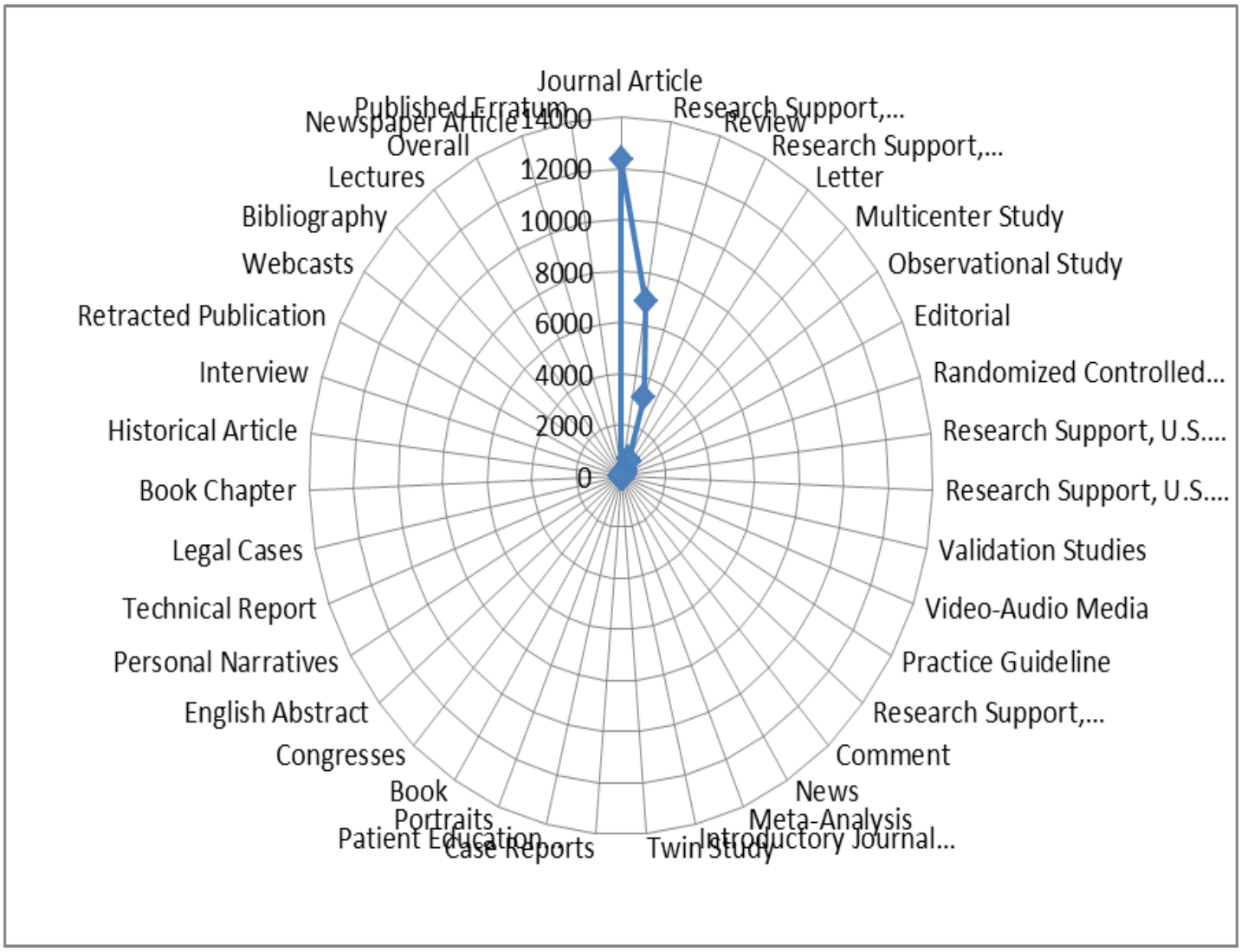

Figure-2: Publication Types of Vascular Diseases in Children Research

7.3 DISTRIBUTION OF JOURNALS IN VASCULAR DISEASES IN CHILDREN BASED ON BRADFORD LAW OF SCATTERING

As per the Bradford Law, the journals which covered journal article (12339) are grouped into three zones producing similar number of articles. The distribution of journal by zone wise is given in the Table 3. It is seen from Table 3 that 43 journals grouped in zone-1 published 4122 journal articles accounting for one third of the total output. Similarly the second zone comprises of 263 journals published 4253 journal articles and 1749 journals published 3964 journal articles grouped in third zone. (Fig.3)

Table 3
Distribution by Zone of cited journals and Journal Articles in Vascular Diseases in Children

S.No.	Zone	No. of Journals		No. of Journal Articles	
		No.	(%)	No.	(%)
1	Zone 1	43	2.09	4122	33.41
2	Zone 2	263	12.80	4253	34.47
3	Zone 3	1749	85.11	3964	32.13
	Total	**2055**	100.00	12339	100.00

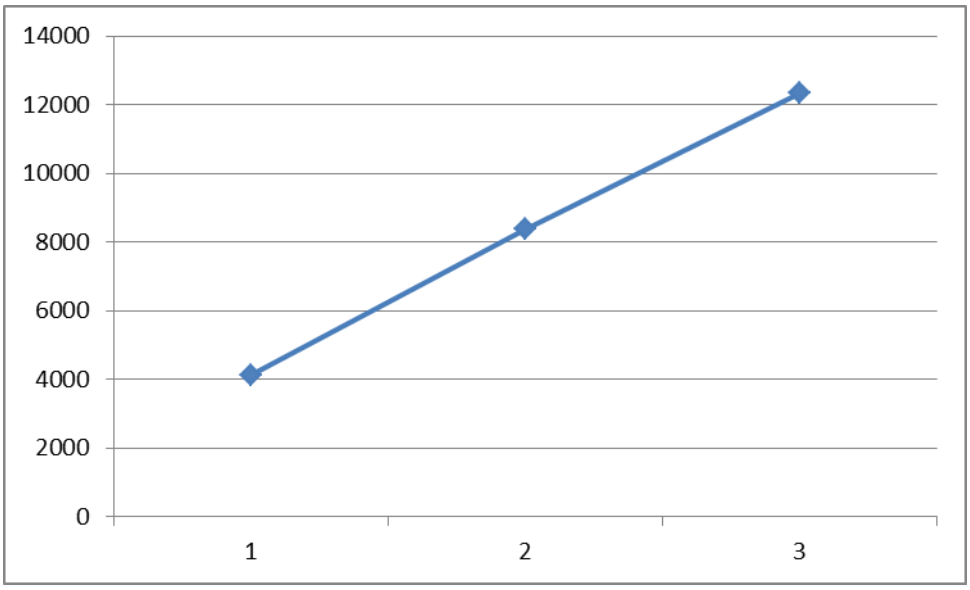

Figure 3 Distributions of Journals by Zones

Table-4 shows that the most cited journals covered the Pediatrics subject with 34.88%. Of the 43 journals in zone-1, 15 journals are associated with Pediatrics, 8 with Cardiology, 4 with Cardiovascular Surgery, 3 with Neurology, 2 each with Neurosurgery, Surgery and Thoracic Surgery and 1 each with Dermatology, Genetics, General Medicine, Nephrology, Oncology, Physiology and Radiology. (Fig.-4).

Table-4: Subject wise coverage of Zone-1 Journals in Vascular Diseases in Children

S. No.	Subject	Frequency	%
1.	Pediatrics	15	34.88
2.	Cardiology	8	18.60
3.	Cardiovascular Surgery	4	9.30
4.	Neurology	3	6.98
5.	Neurosurgery	2	4.65
6.	Surgery	2	4.65
7.	Thoracic Surgery	2	4.65
8.	Dermatology	1	2.33
9.	Genetics	1	2.33
10.	General Medicine	1	2.33
11.	Nephrology	1	2.33
12.	Oncology	1	2.33
13.	Physiology	1	2.33
14.	Radiology	1	2.33
	Total	**43**	**100.00**

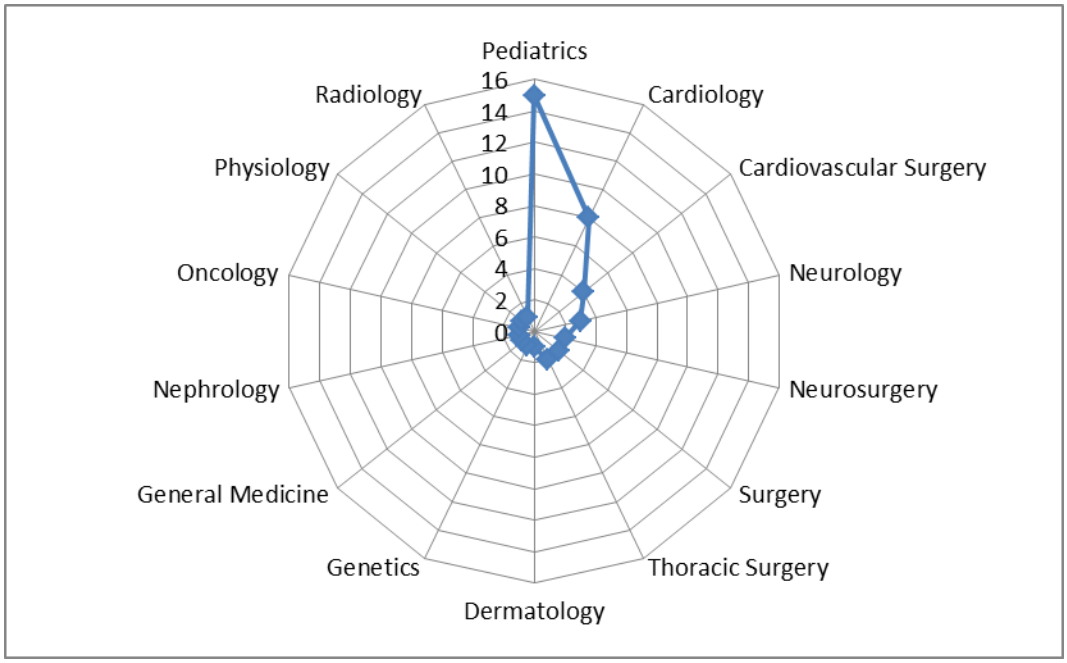

Figure-4: Subject wise coverage of Zone-1 journals

Table-5 shows that in zone-2; 68 are General Medicine out of 263 journals covered,, 44 in Cardiology, 25 in Pediatrics, 18 in Radiology, 15 in Surgery, 11 in Neurology, 9 in Neurosurgery, 8 in Genetics, 7 each in Anesthesia, Hematology and

Rheumatology, 4 each in Endocrinology, Ophthalmology and Physiology, 3 in Cardiovascular Surgery, 2 each in Dermatology, Nephrology, Nutrition, Orthopedics, Pathology, Perinatology, Public Health, Urology and Vascular Surgery and 1 each in Biochemistry, Cancer, Dentistry, Epidemiology, Forensic Medicine, Gastroenterology, Oncology, Otorhinolaryngology, Plastic Surgery, Respiratory Medicine and Thoracic Surgery. (Fig-5)

Table-5: Subject wise coverage of Zone-2 Journals

S. No.	Subject	Frequency	%
1.	General Medicine	68	25.86
2.	Cardiology	44	16.73
3.	Pediatrics	25	9.51
4.	Radiology	18	6.84
5.	Surgery	15	5.70
6.	Neurology	11	4.18
7.	Neurosurgery	9	3.42
8.	Genetics	8	3.04
9.	Anesthesia	7	2.66
10.	Hematology	7	2.66
11.	Rheumatology	7	2.66
12.	Endocrinology	4	1.52
13.	Ophthalmology	4	1.52
14.	Physiology	4	1.52
15.	Cardiovascular Surgery	3	1.14
16.	Dermatology	2	0.76
17.	Nephrology	2	0.76
18.	Nutrition	2	0.76
19.	Orthopedics	2	0.76
20.	Pathology	2	0.76
21.	Perinatology	2	0.76
22.	Public Health	2	0.76
23.	Urology	2	0.76
24.	Vascular Surgery	2	0.76
25.	Biochemistry	1	0.38
26.	Cancer	1	0.38
27.	Dentistry	1	0.38
28.	Epidemiology	1	0.38
29.	Forensic Medicine	1	0.38
30.	Gastroenterology	1	0.38
31.	Oncology	1	0.38
32.	Otorhinolaryngology	1	0.38
33.	Plastic Surgery	1	0.38
34.	Respiratory Medicine	1	0.38
35.	Thoracic Surgery	1	0.38

	Total	**263**	**100.00**

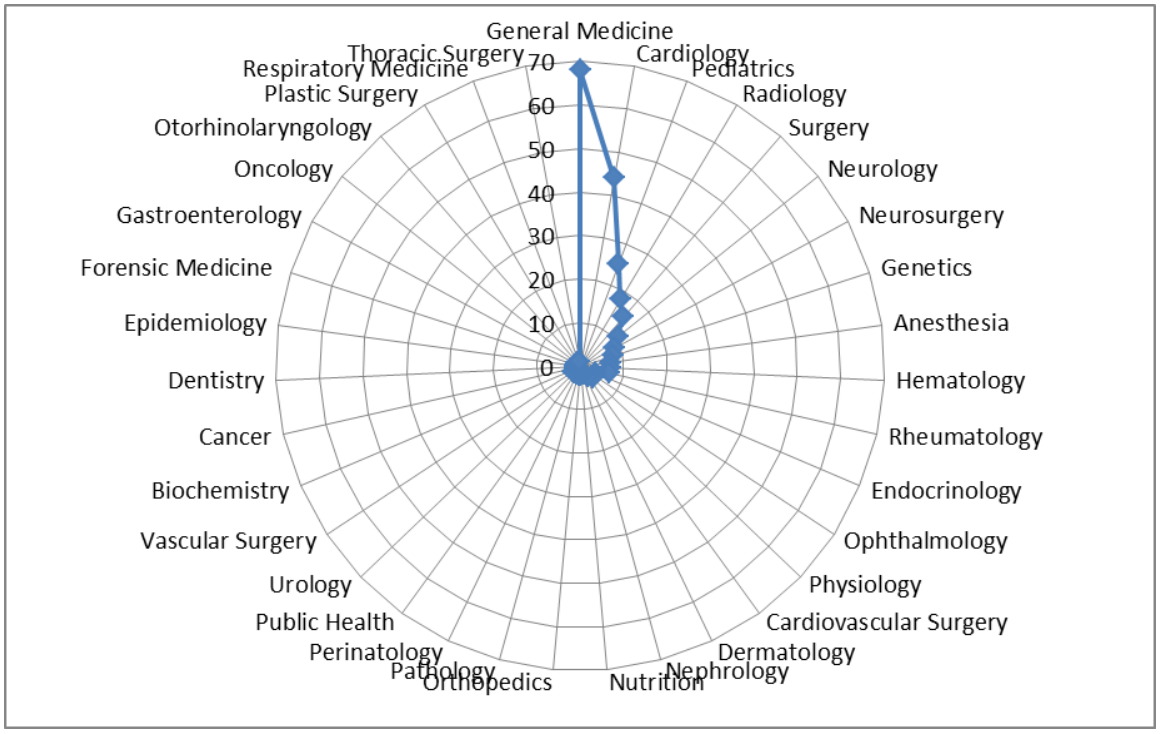

Figure-5: Subject wise coverage of Zone-2 Journals

Table-6 shows that in zone-1 & 2 journals combined; 69 frequently cited journals are General Medicine subject out of 306 journals covered, 52 in Cardiology, 40 in Pediatrics, 19 in Radiology, 17 in Surgery, 14 in Neurology, 11 in Neurosurgery, 9 in Genetics, 7 each in Anesthesia, Cardiovascular Surgery, Hematology and Rheumatology, 5 in Physiology, 4 each in Endocrinology and Ophthalmology, 3 each in Dermatology, Nephrology and Thoracic Surgery, 2 each in Nutrition, Oncology, Orthopedics, Pathology, Perinatology, Public Health, Urology and Vascular Surgery, 1 each in Biochemistry, Cancer, Dentistry, Epidemiology, Forensic Medicine, Gastroenterology, Otorhinolaryngology, Plastic surgery and Respiratory medicine. (Fig.-6)

Table-6: Subject wise coverage of Zone1 & 2 Journals in Vascular Diseases in Children

S. No.	Subject	Frequency	Percent
1.	General Medicine	69	22.55
2.	Cardiology	52	16.99
3.	Pediatrics	40	13.07
4.	Radiology	19	6.21
5.	Surgery	17	5.56
6.	Neurology	14	4.58
7.	Neurosurgery	11	3.59
8.	Genetics	9	2.94
9.	Anesthesia	7	2.29
10.	Cardiovascular Surgery	7	2.29
11.	Hematology	7	2.29
12.	Rheumatology	7	2.29
13.	Physiology	5	1.63
14.	Endocrinology	4	1.31
15.	Ophthalmology	4	1.31
16.	Dermatology	3	0.98
17.	Nephrology	3	0.98
18.	Thoracic Surgery	3	0.98
19.	Nutrition	2	0.65
20.	Oncology	2	0.65
21.	Orthopedics	2	0.65
22.	Pathology	2	0.65
23.	Perinatology	2	0.65
24.	Public Health	2	0.65
25.	Urology	2	0.65
26.	Vascular Surgery	2	0.65
27.	Biochemistry	1	0.33
28.	Cancer	1	0.33
29.	Dentistry	1	0.33
30.	Epidemiology	1	0.33
31.	Forensic Medicine	1	0.33
32.	Gastroenterology	1	0.33
33.	Otorhinolaryngology	1	0.33
34.	Plastic surgery	1	0.33
35.	Respiratory medicine	1	0.33
	Total	**306**	**100.00**

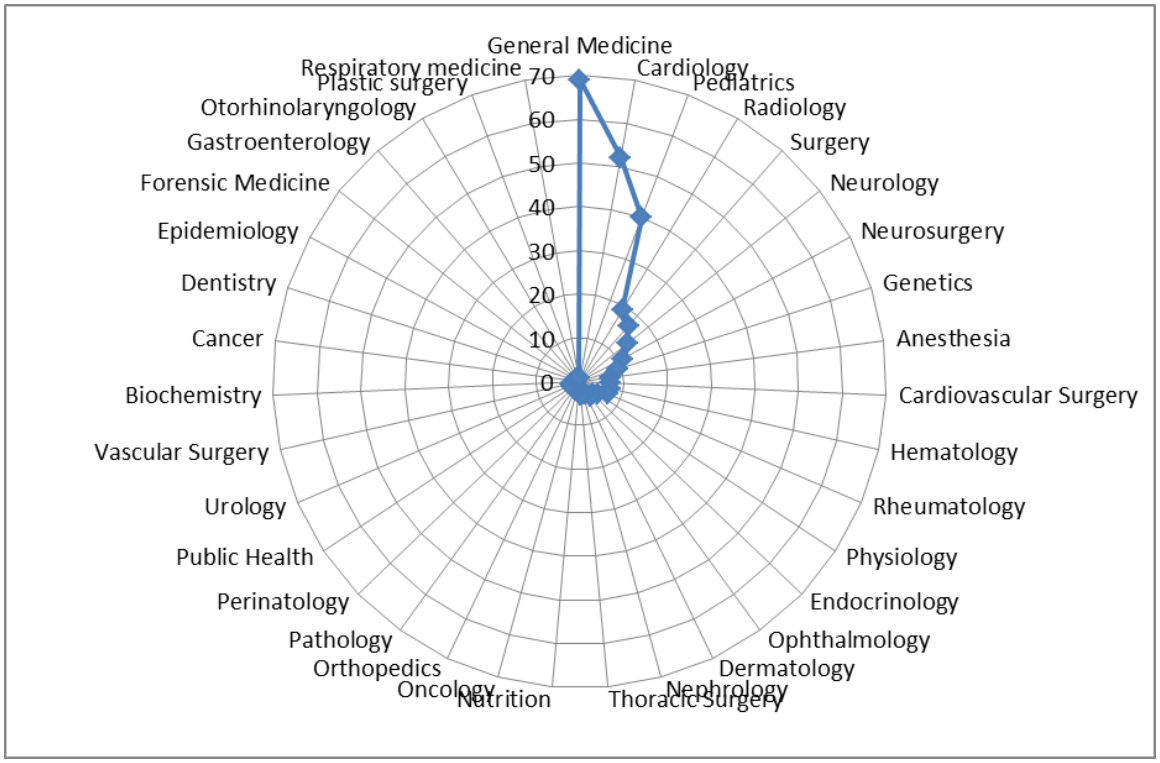

Figure-6: Subject wise coverage of Zone1 & 2 Journals

7.4 CORE JOURNALS IN VASCULAR DISEASES IN CHILDREN RESEARCH

There are 306 journals contributed journal article for Zone 1 and Zone 2. Those journals are identified as core journals in the field of Vascular Diseases in Children. Core journals based on the research output on Vascular Diseases in Children during the study period has been presented in the Table 7. There are 2055 journals contributed 12339 journal articles. The highly productive journals up to five ranks are as follows

1. 'Pediatric cardiology' published from United States with 415 contributions amounting to 3.36% of total contributions.
2. 'Cardiology in the young' published from England with 338 contributions amounting to 2.74%.
3. 'The Annals of thoracic surgery' published from Netherlands with 277 contributions amounting to 2.24%.
4. 'The Journal of thoracic and cardiovascular surgery' published from United States with 160 contributions amounting to 1.30%.

5. ‘Catheterization and cardiovascular interventions’ published from United States with 136 contributions amounting to 1.10%.

Out of the top five ranks United States journal is first rank, 2nd rank is England, 3rd is Netherland, 4th and 5th ranks are United States.

Table 7
Core Journals in Vascular Diseases in Children Research

S.No.	Name of the Journal	No. of Records	%
1.	Pediatric cardiology	415	3.36
2.	Cardiology in the young	338	2.74
3.	The Annals of thoracic surgery	277	2.24
4.	The Journal of thoracic and cardiovascular surgery	160	1.30
5.	Catheterization and cardiovascular interventions	136	1.10
6.	BMJ case reports	135	1.09
7.	World journal for pediatric & congenital heart surgery	132	1.07
8.	European journal of cardio-thoracic surgery	129	1.05
9.	Journal of neurosurgery. Pediatrics	128	1.04
10.	Congenital heart disease	120	0.97
11.	The Journal of pediatrics	113	0.92
12.	Pediatrics international : official journal of the Japan Pediatric Society	91	0.74
13.	Child's nervous system : ChNS	86	0.70
14.	Pediatric transplantation	86	0.70
15.	American journal of medical genetics. Part A	85	0.69
16.	Pediatric nephrology (Berlin, Germany)	83	0.67
17.	Pediatric radiology	78	0.63
18.	PloS one	78	0.63
19.	Pediatric emergency care	77	0.62
20.	The American journal of cardiology	72	0.58
21.	Asian cardiovascular & thoracic annals	71	0.58
22.	Pediatric neurology	71	0.58
23.	Archives de pediatrie : organe officiel de la Societe francaise de pediatrie	68	0.55
24.	Journal of cardiac surgery	67	0.54
25.	Journal of neurosurgery	65	0.53
26.	Pediatrics	65	0.53
27.	Journal of pediatric surgery	60	0.49

S.No.	Name of the Journal	No. of Records	%
28.	Zhonghua er ke za zhi = Chinese journal of pediatrics	58	0.47
29.	Interactive cardiovascular and thoracic surgery	57	0.46
30.	International journal of cardiology	56	0.45
31.	Journal of child neurology	56	0.45
32.	Echocardiography (Mount Kisco, N.Y.)	55	0.45
33.	Zhongguo dang dai er ke za zhi = Chinese journal of contemporary pediatrics	55	0.45
34.	Pediatric critical care medicine : a journal of the Society of Critical Care	54	0.44
35.	Circulation	53	0.43
36.	Journal of the American College of Cardiology	52	0.42
37.	Pacing and clinical electrophysiology : PACE	51	0.41
38.	Indian journal of pediatrics	50	0.41
39.	Journal of pediatric hematology/oncology	49	0.40
40.	Journal of paediatrics and child health	48	0.39
41.	Pediatric dermatology	48	0.39
42.	European journal of pediatrics	47	0.38
43.	Indian pediatrics	47	0.38
44.	International journal of pediatric otorhinolaryngology	46	0.37
45.	World neurosurgery	46	0.37
46.	Journal of pediatric endocrinology & metabolism : JPEM	45	0.36
47.	Pediatric blood & cancer	45	0.36
48.	Archives of disease in childhood	40	0.32
49.	Developmental medicine and child neurology	40	0.32
50.	European journal of paediatric neurology : EJPN	40	0.32
51.	Archives of disease in childhood. Fetal and neonatal edition	38	0.31
52.	Journal of the American Society of Echocardiography	38	0.31
53.	Clinical pediatrics	37	0.30
54.	The Journal of heart and lung transplantation	37	0.30
55.	Turk Kardiyoloji Dernegi arsivi : Turk Kardiyoloji Derneginin yayin organidir	37	0.30
56.	Annals of vascular surgery	36	0.29
57.	Transplantation proceedings	36	0.29
58.	Indian heart journal	35	0.28
59.	Journal of pediatric gastroenterology and nutrition	34	0.28
60.	AJNR. American journal of neuroradiology	33	0.27
61.	Arquivos brasileiros de cardiologia	33	0.27
62.	The Journal of invasive cardiology	33	0.27
63.	The Turkish journal of pediatrics	33	0.27

S.No.	Name of the Journal	No. of Records	%
64.	Heart rhythm	30	0.24
65.	Journal of stroke and cerebrovascular diseases	30	0.24
66.	Rheumatology international	30	0.24
67.	The Pan African medical journal	30	0.24
68.	Artificial organs	29	0.24
69.	Paediatric anaesthesia	29	0.24
70.	Brain & development	28	0.23
71.	The Journal of emergency medicine	28	0.23
72.	The Pediatric infectious disease journal	28	0.23
73.	BMC pediatrics	27	0.22
74.	Journal of neurointerventional surgery	27	0.22
75.	Neurology	27	0.22
76.	Neurosurgery	27	0.22
77.	Pediatric annals	27	0.22
78.	Pediatric pulmonology	27	0.22
79.	Anales de pediatria (Barcelona, Spain : 2003)	26	0.21
80.	Blood coagulation & fibrinolysis	26	0.21
81.	Journal of the College of Physicians and Surgeons--Pakistan : JCPSP	26	0.21
82.	JPMA. The Journal of the Pakistan Medical Association	26	0.21
83.	Archivos argentinos de pediatria	25	0.20
84.	Circulation journal : official journal of the Japanese Circulation Society	25	0.20
85.	European heart journal cardiovascular Imaging	25	0.20
86.	Journal of hypertension	25	0.20
87.	Clinical neurology and neurosurgery	24	0.19
88.	Anadolu kardiyoloji dergisi : AKD = the Anatolian journal of cardiology	23	0.19
89.	European journal of medical genetics	23	0.19
90.	European journal of radiology	22	0.18
91.	Heart, lung & circulation	22	0.18
92.	Journal of AAPOS	22	0.18
93.	Medicine	22	0.18
94.	Zhonghua yi xue za zhi	22	0.18
95.	Acta neurochirurgica	21	0.17
96.	Annals of cardiac anaesthesia	21	0.17
97.	Cardiovascular journal of Africa	21	0.17
98.	Journal of cardiothoracic surgery	21	0.17
99.	Journal of cardiovascular electrophysiology	21	0.17

S.No.	Name of the Journal	No. of Records	%
100.	Journal of clinical neuroscience	21	0.17
101.	Journal of clinical research in pediatric endocrinology	21	0.17
102.	Journal of vascular surgery	21	0.17
103.	Paediatrics and international child health	21	0.17
104.	Pediatric neurosurgery	21	0.17
105.	Pediatrics in review	21	0.17
106.	Texas Heart Institute journal	21	0.17
107.	The Journal of craniofacial surgery	21	0.17
108.	Acta paediatrica (Oslo, Norway : 1992)	20	0.16
109.	British journal of neurosurgery	20	0.16
110.	Cardiovascular pathology	20	0.16
111.	Heart and vessels	20	0.16
112.	Journal of pediatric orthopedics	20	0.16
113.	Journal of the Medical Association of Thailand = Chotmaihet thangphaet	20	0.16
114.	Pediatrics and neonatology	20	0.16
115.	Research in developmental disabilities	20	0.16
116.	The American journal of emergency medicine	20	0.16
117.	The Journal of heart valve disease	20	0.16
118.	Chinese medical journal	19	0.15
119.	Clinical and experimental rheumatology	19	0.15
120.	Italian journal of pediatrics	19	0.15
121.	Klinische Padiatrie	19	0.15
122.	Kyobu geka. The Japanese journal of thoracic surgery	19	0.15
123.	Neuroradiology	19	0.15
124.	Nutricion hospitalaria	19	0.15
125.	Resuscitation	19	0.15
126.	Revista brasileira de cirurgia cardiovascular : orgao oficial da Sociedade	19	0.15
127.	Saudi journal of kidney diseases and transplantation	19	0.15
128.	The Thoracic and cardiovascular surgeon	19	0.15
129.	Zhonghua xin xue guan bing za zhi	19	0.15
130.	Clinical and applied thrombosis/hemostasis	18	0.15
131.	Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal	18	0.15
132.	European review for medical and pharmacological sciences	18	0.15
133.	General thoracic and cardiovascular surgery	18	0.15
134.	Interventional neuroradiology : journal of peritherapeutic neuroradiology	18	0.15
135.	The American journal of forensic medicine and pathology	18	0.15

S.No.	Name of the Journal	No. of Records	%
136.	Archivos de cardiologia de Mexico	17	0.14
137.	BMJ open	17	0.14
138.	Cardiovascular and interventional radiology	17	0.14
139.	Heart (British Cardiac Society)	17	0.14
140.	Hormone research in paediatrics	17	0.14
141.	Journal of pediatric urology	17	0.14
142.	Pediatric surgery international	17	0.14
143.	Thrombosis research	17	0.14
144.	Acta cardiologica	16	0.13
145.	Archives of cardiovascular diseases	16	0.13
146.	ASAIO journal (American Society for Artificial Internal Organs : 1992)	16	0.13
147.	BioMed research international	16	0.13
148.	Clinical rheumatology	16	0.13
149.	European heart journal	16	0.13
150.	MMWR. Morbidity and mortality weekly report	16	0.13
151.	Stroke	16	0.13
152.	The heart surgery forum	16	0.13
153.	Annales de cardiologie et d'angeiologie	15	0.12
154.	International journal of dermatology	15	0.12
155.	Journal of cardiothoracic and vascular anesthesia	15	0.12
156.	Journal of forensic and legal medicine	15	0.12
157.	Likars'ka sprava	15	0.12
158.	Masui. The Japanese journal of anesthesiology	15	0.12
159.	Pediatric and developmental pathology	15	0.12
160.	Pediatric hematology and oncology	15	0.12
161.	The journal of maternal-fetal & neonatal medicine	15	0.12
162.	Ugeskrift for laeger	15	0.12
163.	Journal of cardiovascular magnetic resonance	14	0.11
164.	Journal of clinical hypertension (Greenwich, Conn.)	14	0.11
165.	Journal of perinatology	14	0.11
166.	Journal of the American Academy of Dermatology	14	0.11
167.	No to hattatsu. Brain and development	14	0.11
168.	The international journal of cardiovascular imaging	14	0.11
169.	BMC public health	13	0.11
170.	BMC research notes	13	0.11
171.	Experimental and clinical transplantation : official journal of the Middle East	13	0.11
172.	Journal of clinical lipidology	13	0.11

S.No.	Name of the Journal	No. of Records	%
173.	Journal of interventional cardiology	13	0.11
174.	Journal of vascular and interventional radiology : JVIR	13	0.11
175.	Kardiologia polska	13	0.11
176.	Lupus	13	0.11
177.	Minerva pediatrica	13	0.11
178.	Orvosi hetilap	13	0.11
179.	Revista espanola de cardiologia (English ed.)	13	0.11
180.	Saudi medical journal	13	0.11
181.	Ulusal travma ve acil cerrahi dergisi = Turkish journal of trauma & emergency	13	0.11
182.	Urology	13	0.11
183.	Acta radiologica (Stockholm, Sweden : 1987)	12	0.10
184.	African health sciences	12	0.10
185.	AJR. American journal of roentgenology	12	0.10
186.	Clinical genetics	12	0.10
187.	Clinical imaging	12	0.10
188.	Diagnostic and interventional radiology (Ankara, Turkey)	12	0.10
189.	Herzschrittmachertherapie & Elektrophysiologie	12	0.10
190.	Injury	12	0.10
191.	International journal of epidemiology	12	0.10
192.	Journal of anesthesia	12	0.10
193.	Journal of intellectual disability research : JIDR	12	0.10
194.	Journal of pediatric ophthalmology and strabismus	12	0.10
195.	Journal of ultrasound in medicine	12	0.10
196.	Liver transplantation	12	0.10
197.	Annals of hematology	11	0.09
198.	Circulation. Arrhythmia and electrophysiology	11	0.09
199.	European journal of pediatric surgery	11	0.09
200.	Gene	11	0.09
201.	Genetics and molecular research : GMR	11	0.09
202.	International journal of preventive medicine	11	0.09
203.	Iranian journal of pediatrics	11	0.09
204.	Jornal de pediatria	11	0.09
205.	Journal of cardiology	11	0.09
206.	Journal of Korean medical science	11	0.09
207.	Klinichna khirurhiia	11	0.09
208.	Legal medicine (Tokyo, Japan)	11	0.09
209.	Nutrition, metabolism, and cardiovascular diseases : NMCD	11	0.09

S.No.	Name of the Journal	No. of Records	%
210.	Pediatric research	11	0.09
211.	Perfusion	11	0.09
212.	Turkish neurosurgery	11	0.09
213.	American heart journal	10	0.08
214.	Anatolian journal of cardiology	10	0.08
215.	Atherosclerosis	10	0.08
216.	Clinical dysmorphology	10	0.08
217.	EuroIntervention : journal of EuroPCR in collaboration with the Working Group on	10	0.08
218.	European journal of endocrinology	10	0.08
219.	European journal of haematology	10	0.08
220.	Giornale italiano di cardiologia (2006)	10	0.08
221.	Intensive care medicine	10	0.08
222.	International heart journal	10	0.08
223.	International journal of rheumatic diseases	10	0.08
224.	Journal of cardiovascular medicine (Hagerstown, Md.)	10	0.08
225.	Journal of clinical ultrasound : JCU	10	0.08
226.	Journal of diabetes and its complications	10	0.08
227.	Journal of electrocardiology	10	0.08
228.	Journal of pediatric and adolescent gynecology	10	0.08
229.	Journal of the American Heart Association	10	0.08
230.	Nigerian journal of clinical practice	10	0.08
231.	Pediatric obesity	10	0.08
232.	Pediatric rheumatology online journal	10	0.08
233.	Radiology	10	0.08
234.	Revista portuguesa de cardiologia : orgao oficial da Sociedade Portuguesa de	10	0.08
235.	Scientific reports	10	0.08
236.	Spine	10	0.08
237.	The American surgeon	10	0.08
238.	The journal of trauma and acute care surgery	10	0.08
239.	American journal of transplantation	9	0.07
240.	Archives of Iranian medicine	9	0.07
241.	Blood	9	0.07
242.	British journal of sports medicine	9	0.07
243.	Circulation. Cardiovascular interventions	9	0.07
244.	Clinical biochemistry	9	0.07
245.	European journal of clinical nutrition	9	0.07
246.	Forensic science, medicine, and pathology	9	0.07

S.No.	Name of the Journal	No. of Records	%
247.	Irish journal of medical science	9	0.07
248.	JACC. Cardiovascular interventions	9	0.07
249.	Journal of Ayub Medical College, Abbottabad : JAMC	9	0.07
250.	Journal of forensic sciences	9	0.07
251.	Journal of plastic, reconstructive & aesthetic surgery : JPRAS	9	0.07
252.	Journal of the American Society of Hypertension : JASH	9	0.07
253.	Nature genetics	9	0.07
254.	Nephrology, dialysis, transplantation	9	0.07
255.	Neurologia medico-chirurgica	9	0.07
256.	Nihon rinsho. Japanese journal of clinical medicine	9	0.07
257.	Phlebology	9	0.07
258.	Retina (Philadelphia, Pa.)	9	0.07
259.	Revista chilena de pediatria	9	0.07
260.	Singapore medical journal	9	0.07
261.	Surgery today	9	0.07
262.	The Journal of clinical endocrinology and metabolism	9	0.07
263.	The journal of extra-corporeal technology	9	0.07
264.	The Journal of rheumatology	9	0.07
265.	The neuroradiology journal	9	0.07
266.	Ultrasound in obstetrics & gynecology	9	0.07
267.	Yonsei medical journal	9	0.07
268.	Zhong nan da xue xue bao. Yi xue ban = Journal of Central South University.	9	0.07
269.	A & A case reports	8	0.06
270.	Acta medica Iranica	8	0.06
271.	American journal of perinatology	8	0.06
272.	Anesthesia and analgesia	8	0.06
273.	Annals of noninvasive electrocardiology	8	0.06
274.	Annals of Saudi medicine	8	0.06
275.	Biology of blood and marrow transplantation	8	0.06
276.	British journal of haematology	8	0.06
277.	Cardiology	8	0.06
278.	Cardiovascular intervention and therapeutics	8	0.06
279.	Clinical research in cardiology : official journal of the German Cardiac Society	8	0.06
280.	Danish medical journal	8	0.06
281.	Early human development	8	0.06
282.	European journal of human genetics : EJHG	8	0.06

S.No.	Name of the Journal	No. of Records	%
283.	European radiology	8	0.06
284.	Genetics in medicine	8	0.06
285.	Hospital pediatrics	8	0.06
286.	Indian journal of ophthalmology	8	0.06
287.	International journal of legal medicine	8	0.06
288.	International journal of radiation oncology, biology, physics	8	0.06
289.	JAMA	8	0.06
290.	Journal francais d'ophtalmologie	8	0.06
291.	Journal of medical case reports	8	0.06
292.	Molecular genetics and metabolism	8	0.06
293.	Neurosurgical review	8	0.06
294.	Pediatric dentistry	8	0.06
295.	Plastic and reconstructive surgery	8	0.06
296.	Recenti progressi in medicina	8	0.06
297.	Revista espanola de anestesiologia y reanimacion	8	0.06
298.	Revista medica del Instituto Mexicano del Seguro Social	8	0.06
299.	Rheumatology (Oxford, England)	8	0.06
300.	The Israel Medical Association journal : IMAJ	8	0.06
301.	The Journal of cardiovascular nursing	8	0.06
302.	The Journal of surgical research	8	0.06
303.	The New England journal of medicine	8	0.06
304.	Tidsskrift for den Norske laegeforening : tidsskrift for praktisk medicin, ny	8	0.06
305.	Transfusion	8	0.06
306.	Zhurnal voprosy neirokhirurgii imeni N. N. Burdenko	8	0.06

8. CONCLUSION:

The majority of the records were journal articles. 2055 journals contributed 12339 journal articles. 306 journals were identified as core journals in the field of Vascular Diseases in Children. 69 frequently cited journals were General Medicine subject out of 306 journals covered, 52 in Cardiology, 40 in Pediatrics, 19 in Radiology, 17 in Surgery, 14 in Neurology, 11 in Neurosurgery, 9 in Genetics, 7 each in Anesthesia, Cardiovascular Surgery, Hematology and Rheumatology, 5 in Physiology, 4 each in

Endocrinology and Ophthalmology, 3 each in Dermatology, Nephrology and Thoracic Surgery, 2 each in Nutrition, Oncology, Orthopedics, Pathology, Perinatology, Public Health, Urology and Vascular Surgery, 1 each in Biochemistry, Cancer, Dentistry, Epidemiology, Forensic Medicine, Gastroenterology, Otorhinolaryngology, Plastic surgery and Respiratory medicine.

References

1. https://en.wikipedia.org/wiki/Vascular_disease.
2. SCHLOMAN (Barbara F). Mapping the literature of allied health: project overview. Bulletin of the Medical Library Association. 85, 3; 1997; 271-277.
3. STEVENS (Sheryl R). Mapping the literature of cytotechnology. Bulletin of the Medical Library Association. 88, 2; 2000; 172-177.
4. WALCOTT (Barbara M). Mapping the literature of diagnostic medical sonography. Bulletin of the Medical Library Association. 87, 3; 1999; 287-291.
5. HAALAND (Ardis). Mapping the literature of dental hygiene. Bulletin of the Medical Library Association. 87, 3; 1999; 283-286.
6. BURNHAM (Judy F). Mapping the literature of respiratory therapy. Bulletin of the Medical Library Association. 85, 3; 1997; 293-296.
7. WAKIJI (Eileen M). Mapping the literature of physical therapy. Bulletin of the Medical Library Association. 85, 3; 1997; 284-88.
8. BURNHAM (Judy F). Mapping the literature of radiologic technology. Bulletin of the Medical Library Association. 85, 3; 1997; 289-292.
9. HALL (Ellen F). Mapping the literature of perfusion. Bulletin of the Medical Library Association. 87, 3; 1999; 305-311.
10. RAMAKRISHNAN (J) and RAJENDRAN (P). Mapping the Literature of Hepatitis B. In: Information and knowledge Management in Health Sciences: Newer Perspectives MLAI 2004 National Convention. 2004. Dr.ALM Post Graduate Institute of Basic Medical Sciences, University of Madras; Chennai (India). p 216-224.
11. RAMESH BABU (B) and RAMAKRISHNAN (J). Indian Contributions to the Field of Hepatitis (1984-2003): A Scientometric Study. In: Third International Conference on Webometrics, Informetrics, Scientometrics Science and Society & Eighth COLLNET Meeting. 2007. ICAR Symposium Hall, National Agriculture Science Complex; New Delhi (India). pp.22-32.

12. KRISHNAMOORTHY (G), RAMAKRISHNAN (J) and DEVI (S). Bibliometric Analysis of literature on diabetes (1995-2004). Annals of Library and Information Studies, 54 (September), 2009; 150-155.

13. RAMESH BABU (B) and RAMAKRISHNAN (J). Indian Contributions to the field of HIV/AIDS (1997-2006): A Scientometric Study. In: Webometrics, Infometrics and Scientometrics: Measuring Sceintific and Technological Progress of India. Ed by S.L. Sangam et al. 2010; Dharwad: Karnatak University, pp. 164-178.

14. RAMAKRISHNAN (J) AND THAVAMANI (K). Core Journal Analysis of the Literature on Leptospirosis (2006-2013). In: DESIDOC, 2015. Bilingual International Conference on Information Technology: Yesterday, Today, and Tomorrow, 19-21 February 2015, pp. 196-200.

15. RAMAKRISHNAN (J), RAVISANKAR (G) AND THAVAMANI (K). Analysis of Core Journals in the Literature on Breast Cancer (1965-2014): A Study. *Library Philosophy and Practice (e-journal)* at University of Nebraska - Lincoln. 2016, Paper 1462. http://digitalcommons.unl.edu/libphilprac/1462.

16. BRADFORD (S C). Documentation. London: Crosby, Lockwood, 1948.